

# NEWSLINE

Published weekly for employees of Lawrence Livermore National Laboratory

Friday, November 8, 2002

Vol. 27, No. 45



DON JOHNSTON/NEWSLINE

The last steel beam for the Terascale Simulation Facility (TSF) is lifted into place in a ceremony Oct. 30. The beam was adorned with a flag and a Christmas tree symbolizing long life for the building and an injury-free construction effort.

## TSF building gets off the ground floor

By Don Johnston

NEWSLINE STAFF WRITER

The future of the Terascale Simulation Facility (TSF) was cast in concrete with the placement of the floor for the first computer room.

"As people on-site can see, the building is really starting to take shape," said Anita Zenger, TSF project manager for Conventional Facilities.

The structural steel for the two-story computer areas was also recently completed and work continues on erecting structural steel for the four-story office portion of the building,

Zenger reported.

The computer floor required 1,300 cubic yards, or 130 concrete trucks worth, of concrete and, to date, 1,800 tons of structural steel have been erected.

Less visible, has been work on underground utilities and infrastructure that will power the facility, which will house the generations of supercomputers succeeding the Advanced Simulation and Computing Program's ASCI White.

Anna Maria Bailey, design and construction manager for the project, said work on the 30-foot-tall cooling towers, in the southwest corner

See TSF, page 8

## Graboske names Al-Ayat associate deputy director

Rokaya Al-Ayat has been appointed associate deputy director for Science and Technology (ADDST) by Hal Graboske, deputy director for Science and Technology.

In her new position, Al-Ayat will work with the deputy director for Science and Technology to develop the Laboratory's near- and long-term science and technology investment strategy and the path forward for implementation. Al-Ayat will continue her Laboratory Science and Technology Office (LSTO) responsibilities, including direction for the Laboratory Directed Research and Development (LDRD) Program and the institutional science and technology assessment.



FILE PHOTO

Rokaya Al-Ayat

Al-Ayat has been an integral part of the DDST office since 1995 when

she became the deputy director of the LSTO with the primary responsibility for managing the LDRD Program. In June 2000, she became the LSTO director.

The LSTO activities include the LDRD Program, the annual University of California Science and Technology Assessment process, Public Interest Work projects, the Laboratory Science and Technology Awards System and the Director's Distinguished Lecturers Series.

Al-Ayat holds a master's degree and a Ph.D. in applied mathematics and a M.Eng. in industrial engineering and operations research. She began her career as a research engineer at UC Berkeley in 1975. She joined the LLNL Engineering Directorate in 1978, where she assumed various responsibilities including group leader and associate division leader for systems sciences. In 2000, Al-Ayat joined the Director's Office staff. She is a member of several professional societies, has published numerous papers and has served on many internal and external committees.

## Demonstrators planning Veterans Day protest at Lab

Leaders of anti-nuclear and peace-movement groups hope to assemble 50 to 100 protesters at the Laboratory's Westgate Drive entrance on Veterans Day, this Monday at lunchtime.

To minimize congestion and inconvenience, employees are asked to avoid the Westgate Drive entrance at noontime on Monday. Visitors scheduled to pick up badges at the Westgate Badge Office around that time should be alerted to arrive a few minutes early, in case the demonstration temporarily impedes access to the Badge Office parking lot.

See PROTEST, page 8

## Lab's quality management system measures up

By Don Johnston

NEWSLINE STAFF WRITER

When it comes to quality management systems for engineering and manufacturing, the Laboratory measures up to the world's elite.

The quality management system of LLNL's Engineering Manufacturing & Services Section (EMSS) has been renewed and upgraded to compliance with International Standards Organization ISO 9001:2000 — a worldwide benchmark used by industry for assuring high quality and customer satisfaction in design, production, installation and service.

EMSS provides engineering and manufacturing services to a broad cross section of Laboratory projects, programs and organizations. In 2000, EMSS

was one of the first organizations at a DOE National Laboratory to achieve ISO 9002:1994 certification and is believed to be the first to achieve ISO 9001:2000 certification.

"We're very pleased. It demonstrates our commitment to continuing to improve services across the Laboratory and a broadly recognized process for continuous improvement," said Mark Strauch, deputy associate director for Electronics Engineering, adding that the ISO certification process is "not unlike peer review...this provides an independent measure of what we're doing."

"The DOE is always looking for an independent measure of what we're doing," Strauch said. "This

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Living in a material world

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HOME Campaign blankets Lab

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Seminars focus on Physics

— Page 7



## LAB COMMUNITY NEWS

### Weekly Calendar

#### Technical Meeting Calendar, page 4

Wednesday  
**13**

Today is the deadline to sign up for the LLESA Rubber Stamping Networking Group's **holiday stamp camp**, which will be held Saturday, Nov. 16, beginning at 10:30 a.m., in Bldg. 415, Yosemite room. This will be a hands-on training session on different stamping techniques. Participants will make five different projects; a \$15 fee will cover the cost of materials. Participants are welcome to bring family members or other guests. Please provide the name(s) when making reservations. Contact Terry Griffin, griffin6@llnl.gov or 2-6684.

Thursday  
**14**

U.S. Air Force Col. Frederick Martin will discuss "What the U.S. Is Doing to Combat Terrorism in Afghanistan" at noon in the Bldg. 543 auditorium.

Martin is the commander of the 615th Air Mobility Operations Group at Travis Air Force Base. The presentation is co-sponsored by the Lab Veterans Association and the Diversity & Work/Life Programs Office. Contact Michele Cardenas, 3-2796.

Friday  
**15**

The **LLESA Children's Center** is offering a chance to save 10 percent on purchases at Waldenbooks at Stoneridge Mall in Pleasanton, Nov. 15-18. As an added bonus, Waldenbooks will also donate 10 percent of your purchase to the LLESA Children's Center. To participate, visit the Website at <http://llesa.llnl.gov/child-care/cchome.html> and print a copy of the book fair coupon. Present it at the Waldenbooks in Stoneridge Mall Nov. 15-18.

Saturday  
**16**

**Del Valle Fine Arts** is presenting a performance by Cell Block Seven, a Californian jazz band favoring the West Coast traditional jazz sound, at 8 p.m. at the First Presbyterian Church in Livermore. This band features an eight-man lineup, including a Stradivarius E-flat washboard, a trio of double bell euphoniums, banjo, guitar, mandolin and more. Tickets are \$12 general, \$9 for seniors and students, and free for youth through high school. For more information, visit <http://www.delvallefinearts.org> or call 447-2752.

#### Broadcast Schedule



#### Lab TV

An overview on this year's **Open Enrollment** will be shown on Lab TV channel 2 on Monday at 10 a.m.; Wednesday at noon; Tuesday, Nov. 19, at 10 a.m.; Thursday, Nov. 21, at 2 p.m.; and Monday, Nov. 25 at noon.

## New medical group forms in Tri-Valley

A new medical group has formed in the Tri-Valley as an alternative to the Pacific Health Care Medical Group (PHCMG) that closed last December.

This new medical group is called Tri-Valley Health Choice and its providers consist of approximately 80 percent of the providers that participated in PHCMG.

The PHCMG closure resulted in a significant number of Laboratory employees and their family members losing HMO access to their providers, as well as access to the Valley Care Health System. Many PacifiCare and Health Net members were forced to switch to new providers in other medical groups or to the University's point-of-service plan, UC Care.

Tri-Valley Health Choice has established a relationship with PacifiCare that allows HMO

access to the Tri-Valley Health Choice providers as well as Valley Care Health System. However, in order to choose one of the participating primary care physicians in this new medical group, members must be enrolled in the PacifiCare health plan. This access is not available to Health Net members.

As a result, current PacifiCare health plan members can switch to a Tri-Valley Health Choice provider effective Dec. 1, by calling PacifiCare's Customer Service at (800) 982-9993 by Nov. 15.

Non-PacifiCare members can gain access to Tri-Valley Health Choice providers, effective Jan. 1, by enrolling in the PacifiCare health plan during Open Enrollment.

A list of Tri-Valley Health Care providers can be found at: <http://www.pacificare.com>.



## DOE, Labor Department visit to assist ill workers

Representatives of the Departments of Labor and Energy will be in the Bay Area Dec. 2-5 to assist individuals who have questions about the Energy Employees Occupational Illness Compensation Program Act.

The compensation act, signed into law in 2000, established a program to provide compensation to DOE employees and contractor employees who develop certain occupational illnesses as a result of work associated with nuclear weapons production. Major DOE or related sites in the Bay Area include Lawrence Livermore and Lawrence Berkley national laboratories, and the Stanford Linear Accelerator Center.

The program provides two different types of assistance. Eligibility and benefits differ in each program.

The first is a program for federal benefits administered by the Department of Labor. This program provides a lump sum payment of up to \$150,000 and payment of future medical expenses to employees who suffer from specific diseases — radiogenic cancers, beryllium disease and chronic silicosis. Qualified survivors, including adult children, are also eligible for benefits.

The second is a program where DOE assists DOE contractor employees apply for state workers compensation benefits, if it is determined by an independent physicians panel that the worker sustained an illness caused by exposure to a toxic substance at a DOE facility. Benefits for successful claimants will vary from state to state, but are generally a portion of lost wages plus reimbursement of medical costs.

The Traveling Resource Centers are a joint effort by DOL and DOE to assist individuals regarding claims under either part of the compensation act. Each resource center will be open from 8:30 a.m. to 6 p.m. at the following locations:

- Monday and Tuesday, Dec. 2-3, Four Points Hotel by Sheraton, 5115 Hopyard Road, Pleasanton.
- Wednesday and Thursday, Dec. 4-5, Oakland Marriott (City Center), 1001 Broadway, Oakland.

To make an appointment at either location, call toll-free, (866) 697-0841. However, appointments are not necessary. A full list of California facilities is available at <http://www.eh.doe.gov/advocacy/faclist/showfacility.cfm>.

## LITE unavailable next week due to database upgrade

LITE will be unavailable effective 5 p.m. Tuesday through 8 a.m. Thursday.

During this period, the Administrative Information Systems Department will be moving LITE to a dedicated database. The result of this move should be transparent to users and allow the user base to grow.

An email will be sent on Thursday morning when LITE becomes available.

If you have any questions please call the LITE hotline at 4-5483 or direct your questions to [litesys@llnl.gov](mailto:litesys@llnl.gov).

## IN MEMORIAM

### James Davin

Services were held Monday for James Michael Davin III, a mechanical engineer at the Lab for more than 20 years. Davin died Oct. 30 in Livermore; he was 52.

Davin was assigned to the Laser Science Engineering Division and worked on National Ignition Facility. He was born in Boston and served in the Air Force. Davin enjoyed watching college basketball and following the U.S. space program. He was active in his children's sports and school programs.

Survivors include his wife of 18 years, Carol; daughter Colleen; sons Michael and Paul; his parents, five sisters and a brother. Burial was private.

## Newsline

Newsline is published weekly by the Internal Communications Department, Public Affairs Office, Lawrence Livermore National Laboratory (LLNL), for Laboratory employees and retirees.

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Designer: Denise Kellom; Julie Korhummel, 2-9709

Distribution: Mail Services at LLNL

Public Affairs Office: L-797 (Trailer 6527), LLNL, P.O. Box 808, Livermore, CA 94551-0808

Telephone: (925) 422-4599; Fax: (925) 422-9291

e-mail: [newsline@llnl.gov](mailto:newsline@llnl.gov) or [newsline@llnl.gov](mailto:newsline@llnl.gov)

Web site: <http://www.llnl.gov/PAO/>

Printed on recycled paper

# 1952 – 2002

## MAKING HISTORY, MAKING A DIFFERENCE



*This is an ongoing feature highlighting the Lab's 50-year history. This week we take a look at the years 1995 and 1996.*

## Thermonuclear Ignition and Matter at Extreme Conditions

In May 1997, groundbreaking occurred for the stadium-sized 192-beam National Ignition Facility (NIF), a cornerstone in the U.S. nuclear weapons Stockpile Stewardship Program. NIF will serve as a national and international center for the study of inertial confinement fusion (ICF) and the physics of matter under extreme temperature, energy density, and pressure.

In June 1999, the 132-ton aluminum target chamber was moved by one of the world's largest cranes from its assembly building to the NIF target bay where it is now aligned to better than a millimeter accuracy. In September 2001, the \$270-million conventional facility construction was completed on schedule and on budget. Inside the building, the beampath infrastructure for the first 48 beams was completed the next month. In early 2002, assembly work stations were commissioned in the Optics Assembly Building, where over 17,000 optical components required by NIF will be received, cleaned, assembled, aligned, and transported to the laser.

The NIF schedule calls for project completion in FY 2008, and the NIF team's goal in the coming year is to achieve "first light" by delivering four laser beams to the target chamber.



The 192-beam National Ignition Facility during construction in 2001.

NIF groundbreaking **1997** **1998** multiscale materials science

## Materials Properties from Atomic to Large Scales

For years, scientists have longed for computer simulations that could accurately predict material performance from atomic to engineering scale. In 1998, researchers at Lawrence Livermore made great strides toward this goal, developing experimentally verified, three-dimensional simulations that bridge these extreme scales.

The multiscale modeling approach— where results from simulations at shorter length or time scales are used to create simulations at longer scales—only became possible with the advent of powerful, multiprocessor supercomputing machines. By comparing their simulations to experimental results, researchers validate their codes, which can then be used to predict changes in material properties.

Livermore's researchers are using multiscale modeling coupled with experiments to better understand the long-term effects of radiation damage on materials, which is a particularly important issue for an aging nuclear weapons stockpile. They are also simulating the interaction of laser light with glass, the integrity of canisters for nuclear waste storage, and the actions of biomaterials such as enzymes.



Livermore scientists are examining how materials are organized on surfaces and are conducting their examinations on an atom-by-atom and molecule-by-molecule basis. At this nanometer scale, scientists must use only the most powerful imaging tools, such as the extremely high-resolution atomic force microscope.



## NEWS YOU CAN USE

## ISM X-FILES / by John Maduell

Sponsored by the SSEP Directorate

**Rags on Forklift**

This scenario was taken from Lab Lessons Learned files.

Rags Left on a forklift filled a high bay with smoke after they made contact with a hot exhaust manifold.

Fortunately, no one was injured.

**What Happened**

A technician entered a high bay and found it full of smoke. He located several rags smoldering on the back of a forklift and knocked them away from the propane tank. The rags then ignited, but the technician stamped out the fire and alerted his supervisor.

**What Was Learned**

A lower portion of the exhaust manifold was uninsulated, allowing the rags to contact it. The operator didn't notice that the rags were in contact with the manifold when he parked the forklift.

**Recommended Action**

- Do not allow flammable materials or debris to be stored or accumulate near any object that could become a source of ignition.

Report smoke and other fire indicators immediately.



SLY the Safety Fox

## ◆◆ Technical Meeting Calendar ◆◆

Friday  
**8**

**PHYSICS & ADVANCED TECHNOLOGIES**

"Interstellar Dust," by Alexander Tielens, University of Groningen and UC Berkeley. Noon, Bldg. 319, room 205 (uncleared area). Michael Gregg, 3-8946, or Sandra Maldonado, 3-0621.

Tuesday  
**12**

**CHEMISTRY & MATERIALS SCIENCE**

"Reactive Media — An Example from WIPP's Magnesium Oxide and Its Effects on Brine Chemistry and Pu," by James L. Conca. 11 a.m., Bldg 151, Stevenson conference room 1207 (uncleared area). Contacts: David Smith, 3-5793, or Katie Thomas, 2-7903.

**COMPUTER & COMMUNICATIONS**

First of four quarterly seminars by Legato Systems. 9:30-11:30 a.m. Bldg. 361 auditorium. For a complete agenda, go to [http://is.llnl.gov/legato/legato\\_seminar.htm](http://is.llnl.gov/legato/legato_seminar.htm) Lunch served at 11:30 a.m. RSVP by Tuesday to Tracy Torre, [torre@legato.com](mailto:torre@legato.com) or Candace Gittins, [gittins1@llnl.gov](mailto:gittins1@llnl.gov).

Wednesday  
**13**

**MATERIALS RESEARCH INSTITUTE SEMINAR**

"Ultrafast Interferometry and Spectroscopy of Laser Shocked Metal and Polymer

Thin Films," by Shawn McGrane, Los Alamos National Laboratory. 3:30 p.m., Bldg. 219, room 163 (badge required). Contacts: Jerry Forbes, 3-4906, or Joanna Allen, 2-0620.

Thursday  
**14**

**AUTODESK PRODUCT USERS GROUP**

Demo of Inventor 6 new release and Autodesk Steamline 4, by representatives from APUG, InterVision Systems Technologies, Autodesk and DLT Solutions. Noon-1:30 p.m. Bldg. 361 auditorium. Food for the first 35 to 40 people; brown bag lunches OK. RSVP appreciated. Contacts: Rich Leon, 4-6145, or Jan Glassow, 2-0441.

Thursday & Friday  
**14-15**

**ENGINEERING & THE CENTER FOR ADVANCED SIGNAL AND IMAGING SCIENCES**

Signal and Imaging Sciences Workshop. Thursday: "Time-Frequency Description of Signals," by Leon Cohen, City University. Friday: "Expedition Adventure: Using Geophysics to Find Dinosaurs, Pirate Ships and Cavemen," by Alan Witten, University of Oklahoma. Sessions will begin at 9 a.m. and will be held in the Bldg. 123 auditorium both days (badging required). For registration information, contact Liz Kurzeika, 3-3220.

Monday  
**18**

**CHEMISTRY & MATERIALS SCIENCE**

"Fundamental Study and Application of Cluster Impact on Solid Targets," by T. Aoki, Kyoto University, and "STM Observation of Surface Vacancies Created by Ion Impact," by T. Seki, Kyoto University. 11 a.m., Bldg. 235, room 1090 (uncleared area). Contact: Eduardo Bringa, 3-5724, or Linda Jones, 3-8839.

Tuesday  
**19**

**CENTER FOR NONDESTRUCTIVE CHARACTERIZATION**

"Past and current activities in imaging devices for photons and particles," by Morgan Burks and Jacques Milaud. 1:30 p.m. Bldg. 235, Gold room. Contact Ann Tyler, [tyler8@llnl.gov](mailto:tyler8@llnl.gov), to obtain the abstract.

**INTEGRATED COMPUTING & COMMUNICATIONS**

"What's New in IDL 5.6," by Kevin Wells, Research Systems, Inc. Bldg. 451, room 1025 (White Room), 9:30 a.m. Contact: Betsy Foote, 3-6834.

Wednesday  
**20**

**GEOPHYSICS & GLOBAL SECURITY**

"Low Frequency Electromagnetic Induction Applied in Deep Wells," by Barry Kirkendall, Geophysics & Global Security Division. 1:30-3 p.m., Bldg. 170 conference room 1091. Contact: Camille Vandermeer, 3-2672.

Friday  
**22**

**PHYSICS & ADVANCED TECHNOLOGIES/IGPP**

"Magnetically Powered Gamma-ray Bursts," by Hendrik C. Spruit, Max-Planck-Gesellschaft zur Foerderung der Wissenschaften e.V. Noon, Bldg. 319, room 205. Contact: Michael Gregg, 3-8946, or Sandra Maldonado, 3-0621.

**UC DAVIS, DEPARTMENT OF APPLIED SCIENCE**

"Light at Bicycle Speed . . . and Slower Yet!" by Lene Vestergaard Hau, Lyman Laboratory, Harvard University. 3 p.m., Bldg. 661 (Hertz Hall), room 7 (open area). Contact: Estelle Miller, 2-9787.

December  
**3**

**INSTITUTE FOR SCIENTIFIC COMPUTING RESEARCH**

"Detecting and Exploiting Spatial Regularity in Memory References," by Tushar Mohan, University of Utah. 10 a.m., Bldg 451, room 1025 (property protection area). Contacts: Bronis de Supinski, 2-1062, or Leslie Bills, 3-8927. For more information see URL (<http://www.llnl.gov/casc/calendar.shtml>).

December  
**5**

**PHYSICS & ADVANCED TECHNOLOGIES**

"Study of a Pair-Produced Heavy Neutral Bosons at LEP Using the L3 Detector," by Serguei Likhoded, Boston University. 1:30 p.m., Bldg. 211, room 227 (uncleared area). Contacts: Doug Wright, 3-2347, or Pat Smith 2-0920.

**The deadline for the next Technical Meeting Calendar is noon, Wednesday.**

Send your input to [tmc-submit@llnl.gov](mailto:tmc-submit@llnl.gov). For information on electronic mail or the newsgroup [llnl.meeting](mailto:llnl.meeting), contact the registrar at [registrar@llnl.gov](mailto:registrar@llnl.gov).

THE HOME PAGE



Piecemakers donate quilt for HOME Campaign incentive drawing

By Alane Alchorn  
COMPUTATION

The annual HOME Campaign seems to evoke limitless generosity from many groups and individuals around the Lab. Each year the LLESA Piecemakers Networking Group handcrafts at least one unique donation for the incentive prize drawings.

This year, the super sewers went all-out and stitched a spectacular quilt that is as beautiful as it is warm. The quilt is one of several incentive prizes that will be awarded in weekly drawings for employees who return their HOME envelopes early.

Each holiday season, the group also contributes tiny quilts and other bedding for the doll cradles made by the LLNL Carpenter Shop for local children. This effort has expanded to include game quilts (tic-tac-toe and checkers) for boys.

Piecemakers members love quilting, needlecrafts of all kinds and sharing this knowledge with others. The group remembers its humble beginnings more than a decade ago, when a few Lab ladies met in Bldg. 281 to work on sewing projects together at lunchtime.

It has grown to a membership of more than 70 women and men. A primary focus now is quilting, as that skill has become newly popular in recent years. Almost all members at least try their hand at a small quilting project. Others enjoy crocheting or needlepoint, or the sewing arts of making clothes

for adults, children and dolls.

Crafts of all kinds are encouraged and anyone who is adept at a particular fabric art is encouraged to demonstrate that skill for others in the group. Piecemakers has sponsored classes on making chenille vests, transferring photos to fabric, forming ribbon roses, and paper foundation piecing.

Piecemakers meet every Monday, from noon to 1 p.m at the LLNL Discovery Center (formerly known as the Visitors' Center) auditorium (Building 6525, off Greenville Road between the East Gate and UNCLE credit union).

Visitors are welcomed, and no prior sewing



STEVEN M. KIAR/COMPUTATION

The LLESA Piecemakers Networking Group made a special quilt for HOME Campaign 2002. The Computation Directorate sponsors this year's campaign. AD Dona Crawford (left) accepts the finished quilt from Piecemakers secretary Tammy Rathbun. The quilt will be given away as part of the weekly incentive drawings.

knowledge is required. Come and mingle with others who share an interest in the fabric arts. Bring your lunch and any project you're working on — quilting, embroidery, needlework, and the like.

Membership dues are \$7 a year which entitles a member to the monthly newsletter, discounts at local fabric stores, how-to classes, bus trips and more.

For more information about the Piecemakers, contact Chair Floy Worden, L-623, 2-1853, worden2@llnl.gov, or Vice Chair Alicia Eltgroth, L-607, 2-0424, eltgroth2@llnl.gov.

The group also has a Website at <http://llesa.llnl.gov/activitygroups/piecemakers.html> or general sewing, quilting and craft questions, can be sent to [piecemakers@llnl.gov](mailto:piecemakers@llnl.gov).

HOME contributions to date: \$327,269

Directorate	Total Employees	No. of Contributions	\$ Donated	% Participation
Director's Office	84	11	\$7,895	13%
Energy & Environment	345	26	\$11,021	8%
Computation	1052	153	\$66,442	15%
Chemistry & Material Science	517	41	\$22,959	8%
Safety, Security & Environmental Protection	1105	59	\$16,741	5%
Physics & Advanced Technologies	414	42	\$20,533	10%
Defense & Nuclear Technologies	431	53	\$25,202	12%
Science & Technology Office	68	1	\$300	2%
Laboratory Services	1484	177	\$44,596	12%
Engineering	2282	150	\$48,410	7%
Operations Office	7	2	\$338	29%
NIF Programs	211	50	\$14,642	24%
CFO	102	40	\$9,671	39%
NAI	264	38	\$13,865	14%
Administration & Human Resources	307	71	\$15,721	23%
Biology & Biotechnology Research Program	248	27	\$5,846	11%
Supplemental Labor	0	20	\$2,442	0%
Others	2	2	\$465	100%
<b>TOTAL</b>	<b>8923</b>	<b>963</b>	<b>\$327,270</b>	<b>11%</b>

Due to the large response from employees the first week of the HOME Campaign, this week's incentive drawing was postponed. As a result, there will be two incentive drawings on Tuesday.

All envelopes received at the Pledge Processing Center by 3 p.m. today will be eligible for next week's drawing.

HOME Campaign envelopes are due to the Pledge Processing Center by 3 p.m. every Friday to be eligible for the following Tuesdays name drawing. Winners will be randomly selected from those who pledged that week and from those pledges received earlier, but who have not won a prize.

Incentive drawings will be held on Tuesdays, Nov. 12–Dec. 10.

For more information, go to the HOME Campaign Webpage at: <http://www-r.llnl.gov/home2002/>





## CLASSIFIED ADS

See complete classified ad listings at  
<https://www-ais.llnl.gov/newsline/ads/>

### AUTOMOBILES

1997 - Toyota Avalon, blue, fully loaded, leather wood interior, 95K mi, best offer. 925-443-3396

1998 - Plymouth Voyager (Green) 61K miles. Exc running. Clean, Auto Trans, power windows, brakes, roof rack. 12,500 obo. 209-835-9082

1995 - Toyota Camry Coupe 2Dr, Drk Green, AC, 124k, 5sp, CD, PB, PS, New Wheels/Tires, New Brakes, Runs Perfect, Clean Title \$4,925 OBO 510-773-1334 or 925-456-7445

1924 - Model T 4 dr. Sedan \$3250.00 Partially restored, runs 209-838-3967

1993 - Lexus ES300, 120K, auto, dark green, leather, sun roof, 6-CD player, sun roof, anti-lock, the works. Ex. condition, \$8,200 925-735-3147

1985 - Volvo 240 wagon, good running condition, well maintained with records, 220K miles, \$1300 925-376-1597

1999 - Plymouth Neon, 4 Dr, AC, PS, 84K, Excellent condition, \$4000. Ext. 33044, 925-961-1958

2001 - Saturn SC2 3-door. White ext./gray int. Excellent condition, 33K mi, all the extras, ppd maint. \$9,950. 925-485-1988

1985 - Honda Prelude/Red. Good body, interior, and tires. Needs brakes and TLC. \$1000.00 Call Kim for more info. Leave message or call in evening. 925-294-8369

1987 - Toyota Camry LE, CD player, leather, retractable sun roof, power-w&l, alarm system, new tires, one owner, 86K miles, no drips, immaculate. \$9500 OBO. 925-846-7384

1991 - Honda Civic LX. 4 door, AT, AC, PW, PDL. Blue/blue. 137K miles. Runs well, looks good. \$2900 OBO. 925-200-9976

2000 - Buick LeSabre Custom, luxury car, very low mileage, V-6 with good fuel economy, leather, loaded. \$15,200. 925-736-1463

1998 - Ford Mustang 2DR, Silver, Automatic, Tinted Windows, Spoiler, CD, Great Condition, 85,000 miles, good x-mas present, \$9,000 obo. 925-964-0534

1993 - Pontiac Bonneville. New GM transmission. New struts and tires. Looks and runs GREAT! Can be seen in Lab lot. 176,000 freeway miles. \$2250 obo 925-455-8006

1999 - Mustang GT coupe, all options, Elbach springs, American wheels, new tires, five speed, tinted glass, mint condition, low mileage. \$15,150. 925-449-9038

1996 - Chevy Astro 105k miles in good condition, trailer hitch, recent rear end rebuild, good tires and brakes. \$7,500 209-836-5997

1986 - Lincoln Towncar. 4 door blue with cloth interior, loaded. 72,000 miles \$1800.00 best offer 925-606-8533

1996 - Mazda MPV Mini Van in excellent mechanical condition! pw, pb, ps, ac front, rear, ABS, Tow pkg, new tires. \$6500.00 OBO 209-983-8372

1994 - Voyager mini-van, V-6, 7 seats, 127k miles, clean, good condition, Silver color, \$3,200 925-443-8889

1995 - Camaro, 6 cyl, custom wheels, custom paint, racing stripes, new tires, tranny, radiator, PS/PB/Auto, Alpine AM/FM/CD, fog lights, \$6000/OBO 925-443-6621

1984 - Ford Tempo 160K 2.3L/AT. Good tires, brakes, interior. ~5000mi since major trans service; runs well. Needs shocks. \$800 OBO 925-784-4095

1996 - Toyota Camry LE Sedan 4D, V6, automatic, AC, PS, PB, cruise, moon roof, leather, new tires, recent tune-up, 70,000 miles, \$10,000. 925-443-8118

1964 - Pontiac Catalina, 389 eng, 146k miles, all orig. Great condition! \$3500. 209-527-4990

1990 - Dodge Caravan LE, V6, Auto, AC, AM/FM Cass, New Michelins, Rebuilt Trans, Excellent Condition, Garaged, 114K Miles.....\$4,000 or Offer 925-449-7474

1997 - MAZDA Protege 4 Cylinder w/AT 4dr Sedan, 123K miles in good condition. \$3500 or b/o. 510-793-4711

1996 - VW Cabrio, 5 SP, 60k miles, leather, 6 CD, excellent cond. blue, \$9k OBO 510-769-1748

1993 - Toyota Corolla 4 Dr A/C, AM/FM Stereo, new battery and tires. 2nd owner-138,000 miles; good condition \$2950/offer. Eve: 925-828-6568

1989 - Saab 900S, 192K miles, white, hatchback, runs great, straight body, good paint, 2 yr old trans-brakes-tires. Pics available via e-mail. \$1200/obo 510-812-9317

2001 - Toyota MR2 Spyder, 35,000 miles, Fully loaded, Leather, Carbon Fiber Dash, LoJack. \$24,000 925-634-8162

### AUTOMOBILE ACCESSORIES

Motor 1984 302 TBI-carb out of Merc Cougar. Eng Std incld. \$200 925-447-6321

Camper shell maroon in color, lock broke on door, 2yrs old otherwise in good shape. \$80 925-513-1919

Gmc full size 4 wheel drive parting out. (Blazer type) 925-606-8533

Four Firestone Wilderness LE 265/70/16 tires with 6 lug Aluminum rims off a 2001 LT Suburban. \$300 925-454-8982

### BICYCLES

Mach 1 GT BMX Bike. Good condition. \$135.00 best offer 925-606-8533

NiteRider Digital Pro 12E. Excellent commute or off-road bike light. Dual beam, rechargeable, bright, w/long run time. Be noticed & safe! \$180.00 925-455-6785

### BOATS

1986 Invader, 16 FT Runabout, 3.0L, 4 CYL, seats 6, clean, excellent running condition, great on gas, low hours, \$4995. 209-836-3062

### CAMERAS

Nikon N90S with Quantary 70-30 mm F4-5.6 auto zoom lens. Macro focusing/multi-coated AF Tech 10. (for Nikon AF). New (never used) \$900 or best offer. 925-447-8104

### ELECTRONIC EQUIPMENT

Adaptec 2930 UltraSCSI PCI card. Enables use of SCSI drives and peripherals on newer Macs. \$25. 925-454-8827

Radio Antenna and mast. Dont know technical description but its about 12 ft long and 20 ft wide w/3 crossmembers. Best offer 925-449-1657

LC III Mac computer with monitor, keyboard, mouse, 160 MB HD, 8 MB RAM, software. Apple Personal Laser Writer LS printer, 300 dpi. All for \$75. 925-846-3653

Adaptec Ultra160 SCSI PCI card, model 29160N for PC. 160 MByte/sec performance. Includes new U160 cable. \$150, > \$300 at Frys. 925-455-4484

Macintosh IICx, complete with Apple 14 inch monitor, 40mb removable hard drive, CD drive \$50.00, 15 inch Sony VGA monitor \$15.00 925-829-3175

### GIVEAWAY

KENMORE washer, runs fine but leaks during wash cycle. 925-443-2095

Rocking chair, honey-maple made by Lane. 209-836-3041

Clothes washer 209-832-3880

### HOUSEHOLD

GOURDS for sale, Assorted varieties Call Richard 925-455-1776

GE dishwasher in good running condition. Only six years old. \$20. 925-454-8827

Morigeau crib (light green, wheat), bumper and linens (blue, green and yellow floral/plaid) and mattress. Excellent condition. Ephoto. \$425 OBO 925-735-1761

Dryer; Older electric GE Model; White; Works good; \$25 925-294-9810

Fisher Classic Insert wood burning stove. Fits most fireplaces, cooktop surface, keeps the

house warm. \$200 obo. 925-455-4849

Wood Bunkbed, bottom is queen futon, folds into a couch, needs top mattress, great shape \$200 925-513-1919

Garage sale, 1155 Innsbruck St, Livermore, Fri Nov 15th 2pm - 6pm, Sat Nov 16th 8 am - 6 pm 925-443-7841

Pellet Stove, Sunrise brand. Can email photos upon request. \$450 OBO Located in Tracy. 209-832-2865

China hutch, med. oak, contemporary style, excellent condition, \$599. Matching table/6 chairs also available. 925-443-7543

Two like-new floral couches, oak entertainment center, twin bed with mattress boxspring, coffee tables, lamps, dining room table chairs 209-835-8200

Area rugs. Wool/Sisal. Blend, rubberized. 1. 8ftx30inch \$30. 2. 6ftx7.5ft \$70. Both are bound, exc. cond. 925-443-3447

Kenmore Upright Freezer, 27.4 cubic feet, not frost free, runs well. \$100 925-443-0902

Raincoat, London Fog, Mens extra large, lined, worn once. \$20 925-443-8889

27cu ft side by side refrigerator water and ice in door exc condition color is white. 925-625-2880

Menis navy sportcoat, Bella Nora brand, size 42. Worn twice, paid \$250 at Nordstroms. \$35. 925-648-0671 925-648-0671

Dark Oak 4 foot round table w/ 6 chairs and 24 in. leaf. Very good condition. \$175.00 925-447-8890

Oak Entertainment Center. Has 4 adjustable shelves, 2 slide shelves and drawer. Like new condition. Asking \$350.00. 209-836-1506

Venetian blinds, various sizes, white aluminum, 8 total, \$100 for all. 925-455-8609

### LOST & FOUND

Pair of Bifocal glasses in a Celestial case found in Bicycle basket outside B 311. 925-224-7028

### MISCELLANEOUS

Boutique, 11/15 from 2-8 and 11/16 from 10-4 at Dania Hall, 2nd & N St. Handcrafted treasures, western decor, Longaberger, Italian Charms and more. 925-449-6048

BARLEY straw for sale Keep your decorative ponds algae free. Any size available. Call Richard 925-455-1776

Looking for a workout partner, 24 Hour Fitness. Early morning preferred but will consider change. Cardio and weights. Call Elisa. 925-699-1025

Mah Jong set. Vintage 1950s, catalin jumbo ivory set, dark red alligator case, Cardinal brand. Never used. Absolutely perfect condition. \$100. 925-846-3653

Gas Powered Craftsman Lawn Mower electric start front wheel drive 6 horse power rear bag oldie but goodie. \$50 OB 925-447-4797

HP-48G Graphing Calculator (Hewlett Packard), includes carrying case, user guide, and quick start guide; excellent condition, \$55 209-832-5388

Storage: Livermore 400+ sqft ground level storage, 24 hour access, 10 min from lab, 10 min from downtown, \$175/mo 925-784-8383

Pellet Stove, Sunrise brand. Can email photos upon request. \$450 OBO Located in Tracy. 209-832-2865

Childrens Caterpeg Pedal Tractor. Great for kids 3 and up. Excellent condition. \$75 925-447-7160

10TH ANNUAL CRAFTS BOUTIQUE Nov. 9th 2002 1000 Chalona Ct. Modesto, Ca Lots of handmade, homemade goodies and crafts!! Homemade tamales! 209-983-8372

Creative Memories Page Patterns Organizer and Spring 2002 pages. \$10 Call after 6pm. 925-443-0153

Baseball, Football, and Basketball cards mostly commons, 3000 and 5000 count boxes for \$5 each. 925-462-5559

Walnuts! In-Shell English (Chandlers) are the best walnuts around! Sold in 5 lb increments @ \$1/lb and delivered to work. Leave message for Talbot 209-499-6607

Ceramic firing kiln, excellent condition.

Includes extra shelves, stilts, cones, etc. \$250 takes all. 510-357-5982

Rolling Stones tickets. Saturday Nov. 9 at 7PM. Three available. \$95 each. 925-606-0260

### MOTORCYCLES

1989 - 500cc Black Honda Shadow-excellent condition Approx. 7200 miles. Saddlebags and helmets included \$2400 obo. 925-964-1755

2001 - H-D 883XLH Hugger. 1800 mi; Purple, extended warr, tach, stage 2 jets and pipes. Low step-over height; good for female riders. \$8500 OBO. 925-784-4095

Shoei helmet, Task-five, size L, red white and blue, smoke lens. Like new, Asking 100.00. 510-581-1863

1998 - Honda CBR 600 F3, 2 Brothers Pipes, Fender Eliminator, new front tire & fairly new back tire, tinted windscreen, 8K miles. \$5500 or BO. 209-537-2961

### MUSIC INSTRUMENTS

Kimbel Baby Grand Piano Good condition. Tuned \$950.00 925-447-2076

Estee upright piano. \$200 (free if charitbale organization). You haul. 510-581-1807

### PETS & SUPPLIES

Moving-free to good home. Two spayed indoor female cats, eight years old and friendly. Call Darlene at 510-908-1308

CUSTOM CAT FURNITURE - Special creations for your special kitty(s). Scratching posts to Catnaziiums. Attractive, sturdy, 5-paw rating! Call Howard 925-606-0234

HAY for sale, Excellent quality for horses and other livestock. Call Richard 925-455-1776

2 Blue Indian Ringneck birds, plus cage and toys \$600. 1 Grey Chinchilla and cage \$250. 1 55gal fish tank and blk stand \$300. 209-825-2048

Bunnies--Netherland Dwarf and French Lop for sale w/cages \$35 ea. 925-706-2973

Aquaria. 29 gal tall with real oak stand, complete setup, \$75 OBO. 10 gal complete setup, \$25 OBO. 925-200-9976

Dachshund mini, AKC, w/champ lines, 8 wks, 1 female chocolate smooth hair \$600 CASH only. 925-776-5612

Gift certificate (\$25) at Bishop Ranch Veterinary Center in San Ramon for any vet services. \$15. 925-648-0671

Wanted. Orange female kitten to replace recent pet. Call Buzz. 925-634-5954

### RECREATION EQUIPMENT

Workout equip, Squat rack w/Lat pulldown, Adjustable bench w/Preacher curl, Leg ext, 250#Olympic weight w/rack, barbells, Rubber mat Asking \$1500 925-373-1686

Jogging Stroller. Original Baby Jogger brand. Excellent condition. \$99. 925-454-8827

Windsurfer - Fiberglass windsurfer, sail, and trolley. \$100 OBO. 925-449-1657

Inversion table - top quality! New; hardly used. Up to 300 lb person. Cost \$350; sell for \$275/obo. 209-832-2790

weight bench - \$30.00, rebounder (small circular trampoline) - \$15.00 925-447-2867

Judo/Jujitsu Boys Gi, size 1, worn 3 times, like new! You provide belt. \$5 Call after 6pm. 925-443-0153

### RIDESHARING

Express your commute, call 2-RIDE for more information or visit <http://www-r.llnl.gov/tsmp>.

### SERVICES

Wedding Photography: 21 years exp. Medium format cameras used. You keep all prints and negatives. 925-829-1474

### SHARED HOUSING

Livermore - Furn/Unfurn room \$600/\$500 per month. Full Privs. Share bathroom. 5 minutes from Lab. Non-smoker please. Call Jen-

nifer 925-413-9459

Discovery Bay - room for rent with private bath in Discovery Bay. \$600/month plus 1/2 utilities. 925-447-8138

Livermore - WANTED: Part-time bedroom (4days/wk) in quiet neighborhood (clay sleeper) near Lab. No kitchen/laundry/bath. 916-624-4395

Danville - near Blackhawk, master bedroom with private bath \$875, nonmaster \$650, per month. Quiet townhouse neighborhood with great view. Utilities included. 925-736-0603

### TRUCKS & TRAILERS

1976 Winnebago, 21 FT, Class A, Trailer towing package, Dual exhaust, Headers, Generator, sleeps 6, excellent running condition, \$5995. 209-836-3062

1991 - Trailer Dutchman Classic, two doors, 30feet, awning, island bed, A/C, microwave, electric jack, sleep six, excellent condition, \$6900/OBO 209-839-9720

2001 - GMC SIERRA Z71 SLE, 5.3 liter V8, 4 inch lift, Centerline off-road wheels, BF Goodrich Mud T/As, Line-x bedliner, Billet Grill, 27k, \$24k obo 510-682-9650

1985 - Chevy Suburban, good condition, new transmission, 186K miles, Diesel 6.2 Liter, Tow package, \$4,000. 209-894-3167

1979 - Ford Bronco, \$1,500, currently running. 925-447-1126

1986 - Circle J Grande (extra tall & wide), 2-horse trailer, good condition. \$1600. 925-736-1463

1987 - Chevy K-5 full Blazer parting out. 925-606-8533

2001 - Ford F-250 POWER STROKE Diesel, 4-wd, crew cab, white, tow pkg, liner, t/w, C/D, cloth int, A/T, 5th whl, 40K miles. cell 510-760-9128. 209-321-7213

1987 - GMC Jimmy (Blazer type) 4 wheel drive full size parting out. 925-606-8533

1990 - GMC 4X4 Suburban, Power locks and windows, Front and Rear air and defrost, Approx. 45,000 on new Transmission, original owner. \$5,100 925-455-1262

2000 - Chev 4WD Z71, Red, Ex cond. looks like new, Linex Bed Liner, matching fender flares. 60K miles, includes Extend warranty. \$18,500 209-836-3969

1977 - Cortez completely reconditioned. \$8700. 925-447-7976

1984 - Chevy Suburban 4x4! New Engine, Starter and rebuilt Trans. Asking \$4,200 or B/O. Talbot 209-499-6607

1995 - Shorelander Tandem Personal Water-Craft Trailer, will carry total of 2 PWCs either sitdown, stand-up or combination of both types 750.00/BO 925-680-7444

### VACATION RENTALS

Maui, HI - Kahana Reef oceanfront 1BR/1BA condominium. Beautiful two-island view, oceanside pool, and BBQs. Low LLNL rates for year-round reservations. 925-449-0761

Your Choice! - Timeshare week must be used by 3/31/03. Good at any location in RCI.com. Need your travel dates (not holidays) and location options. \$700/wk. 209-832-2790

MAUI Kihei oceanfront 2-bdrm condo - ocean view, beautiful white sandy beach, pools, tennis, low LLNL rates. 925-846-1459

### WANTED

Experienced AD&D player(s) wanted for occasional adventure. Call Mark for more details. 925-447-7585

1-2 Person, small Mobile Modular Office with heat/air for home business. \$500 or less. 925-634-8162

Portable Canopy Cover, with heavy duty poles, large enough to store and protect a 20 FT boat. Will pick up. 209-836-3062

1950s gas cook stove with griddle and broiler drawer in clean, working condition, normal wear and tear, reasonable price. 925-846-8264

A.C. Arc welder (buzz box) 240 volt input, any condition. 925-462-0727

Mantis Tiller. Have one gathering dust in the shed? Let me take it off your hands! 925-456-5874

**Due to space limitations, Newsline may withhold ads that have already run. They will still appear on the Web.**

## AROUND THE LAB



# Physics seminar series highlights researchers' work

By Anne M. Stark

NEWSLINE STAFF WRITER

Nuclear weapon detectors. Retrieving stardust from outer space. Life's beginnings on Earth. Exploring extreme states of matter.

You can learn about all these projects and more at the Physics and Advanced Technologies Directorate-Wide Seminar Series for 2002-2003.

This year's series is aimed at highlighting the spectrum of quality work conducted within the PAT Directorate, said Ralph Jacobs, PAT's scientific and technical communications director.

"These seminars have a dynamic quality," Jacobs said. "The scientists are geared to teach, give an overview and go into specifics about their projects. The seminars are targeted to interest both expert and non-expert attendees."

The seminar series, in its second year, is open to all Lab employees and subjects span all PAT divisions.

The next presentation, scheduled for Nov. 19, features Mark Kasevich of Stanford University who will be discussing Global Positioning without GPS: High-Accuracy Inertial Navigation with Ultra-Cold Atoms. His talk will begin at 2 p.m. in the Bldg. 543 auditorium.

This year's series started Oct. 22 with senior scientist George Chapline of N Division discussing plutonium and quantum gravity. Chapline talked about how the phenomena of quantum criticality could resolve the fundamental problems associated with the logical inconsistency of general relativity and quantum mechanics. Not only does this lead to dramatic predictions for astrophysical black holes, but also it sheds new light on the nature of certain strongly correlated elec-

tron materials such as plutonium.

Earlier this week, Doug Wright, the High Energy Physics and Accelerator Technology group leader in N Division, discussed his work searching for the origin of the universe through studying the existence of CP violation, a fundamental process that favors particles over antiparticles. It remains a crucial problem for both particle physics and cosmology. Wright and his team's work on the project earned them a 2002 Laboratory Science & Technology Award.

CP violation is necessary in cosmological models that describe a universe dominated by matter over antimatter, such as our universe. For nearly 40 years, only one CP-violating process had ever been observed. The origin of the effect was not understood and it could not provide the mechanism required by cosmology.

Now, Wright and his team, along with numerous other international particle physicists, including researchers from Lawrence Berkeley and the Stanford Linear Accelerator Center, have assembled an accelerator and detector facility at SLAC to address the mystery of CP violation.

The detector, called BaBar, comprises the usual nested set of detector sub-systems to precisely mea-



MARIA CHIARA SIMANI/PAT

Doug Wright of N Division stands in front of the BaBar detector at SLAC.

sure the production and decay points of the B-meson pairs produced, to measure the momentum and energy of the decay particles, and to determine the nature of the kind of particles in these decays (i.e. electrons, muons, pions, kaons).

The team used 62 million data samples of B-meson decays using the BaBar detector and the PEP-II asymmetric-energy B Factory (also at SLAC) between 1999 and 2001.

Upcoming presentations include Regina Soufli, who will discuss her development of Thin Film Coating Tool that earned her team an R & D 100 Award this year. Her talk will be on Nov. 26 at 2 p.m. in the Bldg. 123 conference room A.

This year, Jacobs said he was able to expand the series to include 22 presentations. In its first year, the directorate hosted 16 talks.

All talks are held at 2 p.m. in Bldg. 123 conference room A except the Nov. 19, Dec. 3, and March 4 seminars that will be held in the Bldg. 543 auditorium. The May 13 talk will be held in Bldg. 219, Room 163. Seminar details can be found at the PAT internal Website <http://www-pat-r.llnl.gov>.

## BRIEFLY

### Signal and Imaging Sciences workshop

The Laboratory's Center for Advanced Signal and Imaging Science (CASIS) will hold its annual Signal and Imaging Sciences Workshop Thursday and Friday, Nov. 14 and 15 in the Bldg. 123 auditorium.

Keynote speaker Leon Cohen of City University will kick off the Thursday session with a talk entitled, "Time-Frequency Description of Signals." Friday's session will start with a talk by Alan Witten of the University of Oklahoma's School of Geology and Geophysics, "Expedition Adventure: Using Geophysics to Find Dinosaurs, Pirate Ships and Cavemen."

Sessions begin at 9 a.m. Badging is required. For registration information, contact Liz Kurzeika, 3-3220 or mail to: [kurzeika1@llnl.gov](mailto:kurzeika1@llnl.gov)

### Reminders from Badge Office

To avoid badging delays for your visitors, badge and administrative escort requests need to be properly completed and submitted to the Badge Office at least one full workday prior to the visit. Please inform visitors that official federal- or state-issued picture identification is required, and a valid driver's license is necessary if the visitor needs to drive on LLNL property.

For timely processing of requests, please ensure all required information on form LL6376 Badge Request, and LL6456 Administrative Escort Request, is complete and accurate. Forms are located on the Web at [http://www-r.llnl.gov/eforms/eforms\\_lib.html](http://www-r.llnl.gov/eforms/eforms_lib.html).

Please follow these suggestions to ensure your visitor's badging transaction goes smoothly:

- Use the full name of the company (avoid using acronyms).
- Ensure the badge request is signed by an appropriate requester.

- When submitting an IA 473 form for foreign visitors, remember to also submit the badge request.
- Ensure correct spelling of visitor's name, and correct Social Security number.
- State the purpose of the visit.
- Make meeting location arrangements with your visitor prior to arrival at the Laboratory.

If your visitor requires access through CAIN booths for less than 30 days and has a DOE standard badge, no badge request is necessary. However, if access is required for more than 30 days, a badge request is required with the notation that it is for CAIN access only.

To contact the Badge Office, call 2-0717 or visit the Website at <http://www-security.llnl.gov/SSDPub/BOProcedures.html>

### Upgrade coming for Meeting Maker

Meeting Maker is being upgraded to 7.2.1 and will be introduced to Lab employees in late November. The upgrade will be managed by Open LabNet and supported by 4-HELP.

The transition from the current version to 7.2.1 will begin Friday, Nov. 22, at 5 p.m. and continues through the weekend. All data will be preserved during the upgrade.

Meeting Maker is a site-licensed shared-calendar program available to all Lab personnel. The current version can be downloaded at <https://esd.llnl.gov/esd.cfm>. If you would like an account and do not already have one, see your local Meeting Maker administrator or call 4-HELP (4-4357).

The new version of Meeting Maker offers an overall performance improvement plus new features, including:

- Macintosh OS X compatibility;
- Improved support for Palm OS handhelds;
- Java client for mobile users;
- More reliable reconnections.

The upgrade will be rolled out in an automated fashion, with most of the process occurring behind the scenes. Meeting Maker users will be required to log in as normal and accept the installation of the new version. More detailed instructions will be given to users in the coming weeks.

The Meeting Maker Upgrade Project team tested the new version of Meeting Maker with Lab standard software (e.g., Microsoft Office, Eudora and Netscape). To date, no compatibility issues were discovered.

Detailed upgrade information is available at <http://4help.llnl.gov/mm/upgrade.html>. Open LabNet maintains the Meeting Maker server. The 4-HELP hotline and local Meeting Maker administrators support individual accounts. Questions concerning the upgrade may be directed to [4help@llnl.gov](mailto:4help@llnl.gov) or 4-HELP (4-4357).

### CRC off to the Sunshine Building

This month, the Computing Resource Center (CRC) moves to Bldg. 041, the Sunshine Building, located at the northwest corner of Mesquite Drive and Vasco Road.

This newly rehabilitated space offers CRC customers easier access, a designated pickup area and improved parking. After the move, CRC will also expand its counter hours to 8:30 a.m. to 4:30 p.m., Monday through Friday.

The move will take place Nov. 20-22. The CRC counter operation in the current Bldg. 141 location will shut down at close of business Nov. 19 and will resume in the new location on Monday, Nov. 25. During the Nov. 20-22 time period, CRC online, e-mail, telephone and fax services will also be disrupted.

An open house at the new location will take place Nov. 25-27.



## THE BACK PAGE



JACQUELINE MCBRIDE/TID

Work on the Terascale Simulation Facility can be seen from a distance. This photo was taken from the National Ignition Facility. Work began earlier this year. The TSF is being constructed in three phases, with the first phase scheduled to be completed in 2004.

### TSF

*Continued from page 1*

of the project site, and piping would start later this month. "That will be a very visible aspect of the project," she said.

"When you have a large construction project like this right in the middle of the Laboratory, you have to make sure construction activities are well coordinated to minimize disruption to the surrounding area. LLNL employees have been extremely understanding and tolerant of the disruptions and access limitations," said Lonny Dayton of Plant Engineering, TSF lead inspector/coordinator.

Bailey, Zenger and Dayton credit M.A. Mortensen's Advanced Technology Group (ATG) with the smooth conduct of project construction. "They're really doing a great job," Zenger said, adding "All the people we're working with on this project have been great to work with."

Bailey said the design firm, RMW Architects, "did a phenomenal job coordinating issues with the University of California. We were able to work options through the design process that have helped minimize disruption during construction. We've been really pleased with their performance."

### ISO

*Continued from page 1*

helps raise the level of confidence."

Ken Luu, EMSS section leader, said that not only was certification renewed, but the scope of certification was also expanded to include software design and development. EMSS is now certified to document, manufacture, assemble, install and service electronic hardware and systems, and design and develop software.

EMSS has come a long way in the decade since Luu took over the organization and brought together the team that has transformed Engineering Manufacturing & Services. Since the first certification in 2000, increasing demands for services have spurred the section to grow from 76 to 113 employees.

"Growth has been really remarkable over the last 18 months," said Nick Howard, ISO management representative for EMSS.

A decade ago, the group managed to meet quality and time requirements of customers only 50 percent of the time. "Today it is 98 percent of the time," Luu said. "If we mess up, then we rework for free...business has doubled in two years."

Luu emphasizes that it has been a team effort to build EMSS into the organization it is today. He attributes its success to the unique engineering R&D expertise residing at the Laboratory and the creation of a system providing constant feedback and improvement.

"Customers have confidence in the system," Luu said. "Even if there is a problem, we have a process for identifying and correcting it. People rely on the

"The project team and contractor are very well organized," said Rick Visoria, TSF Program project manager. "The contractor has not only thought about getting the work done, but how that work will impact people. The contractor is very conscious of the disruption and has conducted surveys of employees in nearby buildings to identify problems. Things have gone very smoothly."

"The TSF Project team has tried to keep every one on board by issuing regular bulletins to local tenants notifying them of any access changes or other disruptions," Visoria said.

TSF is being constructed in three phases with completion of the first phase in time for delivery of the ASCI Option Purple 60-plus teraflop (trillion floating operations per second) machine scheduled to arrive in 2004. That will be followed by completion of the office building in 2005 and the second computer room in 2006.

Work has also begun on the roof to the computer rooms, which totals 48,000 square feet.

When completed, the simulation facility will total 253,000 square feet and consist of two 128-foot-by-192-foot computer rooms and a four-story office complex designed to house 288 scientists, engineers and support staff. In addition to individual offices, the office wing will contain a meeting

system to resolve problems.

"People who were doubters are now believers and regular customers."

EMSS provides services in 12 basic areas, such as telecommunications, environmental systems engineering, central drafting, fabrication, field support and installation, software development and control systems integration. In addition to manufacturing services, EMSS serves as a consultant, advising Lab customers in the selection of vendors or inspecting work done by others.

Luu said that it is now common in industry for companies to require ISO certification of its vendors as a way of ensuring quality services.

Compliance with ISO standards was determined via a comprehensive four-day audit conducted by Bureau Veritas Quality International (BVQi), North America. BVQi has registered some 30,000 companies worldwide.

Compliance is determined by adherence to a set of quality management principles including: customer focus; leadership; involvement of people; process approach; system approach to management; continual improvement; factual approach to decision making, and mutually beneficial supplier relationships.

In the October letter announcing renewal of registration, BVQi said the Lab "maintains its status among an elite group of companies who have achieved world class quality."

"We do world-class R&D at the Laboratory," said Jim Branum, quality engineer for EMSS, "and now we're using world-class quality standards."

room, visualization theater, research and development area, video-conferencing center, classroom and storage space.

Work began on the project following a groundbreaking ceremony April 4. TSF is the first Lab building dedicated to computing to be built in 20 years.

For more information about TSF, see the March 15 edition of *Newsline* or check the Web at: <http://www.llnl.gov/asci/tsf/>

### PROTEST

*Continued from page 1*

Group leaders held a meeting Nov. 4 to finalize their logistics. In communication with the Lab's Office of Investigative Services, leaders said they plan to gather at Vasco Road and East Avenue at about 11:45 a.m., moving to West Gate Drive and arriving there about noon. At the Lab's Westgate Drive entrance, they will set up a table and attempt to present the Laboratory with "evidence" supporting their contention of production of weapons of mass destruction.

The group leaders also said they are not encouraging any protesters to be arrested or block the roadway. Similar conditions a year ago, however, produced several arrests. So if protesters' activities should cause the Westgate Drive roadway to close, the Protective Force Division will assure that it will be for a short time only.

See *NewsOnline* for any changes in the demonstration timing or logistics.



Newsline  
UC-LLNL  
PO Box 808, L-797  
Livermore, CA 94551-0808